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L2 ANSWER 1 OF 1 JAPIO COPYRIGHT 1997 JPO and Japio
AN 95-265074 JAPIO
TI NEW CREATINE AMIDINOHYDROLASE AND ITS USE
IN HATTORI SHIZUO; TEJIMA SHINICHI; KAWAMURA YOSHIHISA
PA TOYOSO CO LTD, JP (CO 000316)
PI ***JP 07265074*** A 19951017 Heisei
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SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol.
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CC 14.5 ORGANIC CHEMISTRY - Microorganism industry
28.2 SANITARY - Therapy and sanitation
46.2 INSTRUMENTATION - Testing
AB PURPOSE: To obtain a new creatine amidinohydrolase, useful as
reagents for determining creatine and creatinine, excellent in
thermal stability, having a low Km value for the creatine and good
in reactivity.
CONSTITUTION: This creatine amidinohydrolase is obtained by
culturing *Alcaligenes faecalis* TE3581 (FERM P-14237), etc., and has
the following properties: (1) reacting with creatine and producing
sarcosine and urea; (2) optimum temperature: about 40-45.degree.C;
(3) optimum pH: about 8.0-9.0; (4) stable at .ltoreq. about
50.degree.C when kept warm at pH7.5 for 30min; (5) stable at pH
about 5-8 when preserved at 40.degree.C for 18hr; (6) about 15.2mM
value of Km for creatine; (7) molecular weight: about 67000
(measured by the gel filtration method) and about 43000 (measured by
the sodium dodecyl sulfate-polyacrylamide gel electrophoresis
(SDS-PAGE)) and (8) isoelectric point: about 3.5.